

2021 – 2022

Degree Plan: Master of Science in Engineering
Concentration Manufacturing
Manufacturing & Industrial Engineering Department

Name: _____ SID: _____
last first middle

Address: _____
Street city state zip

Tel _____ E-mail _____ Advisor _____

Degree Option (check one): Thesis ☐ Non-thesis ☐

Leveling Courses (check one) None ☐ Required (see below) ☐

Course Number	Course Title	Required?	Semester	Grade	Comments or Substitutions
MANE 1204	Engineering Graphics				
MANE 2332	Engineering Statistics				
MANE 2403	Engineering Mechanics				
MANE 3340	Fundamentals of Industrial Engineering				
MANE 3351	Manufacturing Engineering Analysis				
MANE 3364	Manufacturing Process				
MANE 3437	Thermal and Fluids Science				

Program Requirements, Required Elective Courses. (Choose one unduplicated 3-hour course from each area listed on back of this page-Quality, Design, Systems, Engineering Management. A course that appears in two areas may be used to satisfy only one of the areas.)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions
					Quality Area
					Design Area
					Systems Area
					Engineering Management Area

Program Requirements, Manufacturing Engineering Electives. (Six hours of unduplicated courses from the list of courses in the quality, design, systems or engineering management areas.)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions

Program Requirements, Other Electives. (Six hours of unduplicated courses from business, engineering, and sciences with the consent of the student's thesis committee or graduate coordinator)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions

Capstone Requirement, Thesis Option. (Thesis Option: Take MANE 7300 and 7301)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions
MANE 7300	Thesis I				
MANE 7301	Thesis II				

Capstone Requirement, Non-Thesis Option. (Six hours of unduplicated courses from the quality, design, systems, or engineering management areas. Course project report showing graduate level work from one of the MANE courses approved by the graduate coordinator)

Course Number	Course Title	Hours	Semester	Grade	Comments or Substitutions

Course Project Report Submitted ☐

Total Number of Hours: _____ (Both options require 30 hours.)

Approvals:

Graduate Coordinator

Date

Department Chair

Date

Dean or Associate Dean, COSE

Date

Thesis Title (if applicable):

Advisor’s name: _____

Co-Advisor: _____

Committee Members: _____

Committee Members: _____

Committee Members: _____

Manufacturing Engineering Program Requirements

Course Number	Course Title	Quality Area	Design Area	Systems Area	Engineering Management
MANE 6304	Industrial Cost Systems				✓
MANE 6311	Advanced Quality Control	✓			
MANE 6313	Design of Experiments	✓			
MANE 6315	Reliability Engineering	✓			
MANE 6319	Quality Management Systems	✓			✓
MANE 6321	Robotics and Automation			✓	
MANE 6323	Advanced Computer Aided Design		✓		
MANE 6328	Dynamic System Modeling & Forecasting			✓	
MANE 6331	Advanced Manuf. Planning and Control			✓	✓
MANE 6340	Operations Research and Analysis			✓	✓
MANE 6342	Decisions Support Systems			✓	✓
MANE 6345	Engineering Management				✓
MANE 6346	Polymer Engineering		✓		
MANE 6347	Facilities Layout		✓		
MANE 6349	Advanced Work Science				✓
MANE 6352	Manufacturing Systems Simulation			✓	
MANE 6354	Advanced Engineering Economics				✓
MANE 6368	Logistics Engineering			✓	
MANE 6369	Mold Design and Analysis		✓		
MANE 6375	Human Factors		✓		
MANE 6380	Engineering Project Management			✓	✓
MANE 6399 Topics courses require the approval of your advisor or the graduate program coordinator to determine the area or areas that the course satisfies					